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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/697,614	10/29/2003	Yoshitaka Ito	1018.1190101	9629
28075	7590 01/10/2006		EXAMINER	
	N, SEAGER & TUFTE, I	WALK, SAMUEL J		
1221 NICOLLET AVENUE SUITE 800			ART UNIT	PAPER NUMBER
	LIS, MN 55403-2420	2632		
			DATE MAILED: 01/10/2006	6

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/697,614	ITO ET AL.				
		Examiner	Art Unit				
		Samuel J. Walk	2632				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address				
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 16(a). In no event, however, may a reply be to rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)[X]	Responsive to communication(s) filed on 14 O	ctober 2005.					
•	nis action is FINAL . 2b) ☐ This action is non-final.						
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
-,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
4)⊠ Claim(s) <u>1-4 and 7-9</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
•	⊠ Claim(s) <u>1-4 and 7-9</u> is/are rejected.						
	_						
8) 🗌							
Applicati	ion Papers						
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	under 35 U.S.C. § 119						
-	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents		a)-(d) or (f).				
	1. Certified copies of the priority documents2. Certified copies of the priority documents		tion No				
	Copies of the certified copies of the prior application from the International Bureau	rity documents have been receiv					
* (See the attached detailed Office action for a list	of the certified copies not receiv	red.				
Attachmen	t(s)						
1) 🔲 Notic	e of References Cited (PTO-892)	4) Interview Summar					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date 5) Notice of Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6) Other:							

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-4 and 7-9 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claims 1 and 7 claim "the casing being fixed to the base end of the valve stem so as not to be movable relative to the valve stem" in lns 8-9. The originally disclosed specification does not support this limitation.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the

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differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1-4 and 7-9 are again rejected under 35 U.S.C.

103(a) as being unpatentable over Chuang (US 6591672) in view of Admitted Prior Art.

In reference to Claim 1, Chuang discloses a condition sensor of a pneumatic tire of a vehicle wherein claimed measuring-transmitting portion met by condition sensor 10, see Col. 2 lns 50-55 and Col. 4 lns 59-61; claimed valve stem met by tire valve stem 19, see Col. 3 lns 54-56; claimed casing met by housing (unlabeled), see Col. 3 lns 46-50; claimed engagement portion met by elongated hole 53, see Col. 3 lns 55-63. addition, Chuang shows that valve stem cavity 51 and elongated hole 53 are recessed, see Fig. 3. Chuang discloses a specific tool is used to affix the sensor, see Col. 4 lns 39-40, but does not specifically disclose that a jig of an automatic mounting machine is used. However, Applicant has admitted that clamp-in valve systems, systems which are screwed in and secured with a nut, use an automatic mounting machine with a jig to install the system, see pg 1 lns 32-25 and pg 2 lns 1-7. In addition, Chuang shows in Fig. 1 that the casing is valve stem 19 is mounted onto the casing 17 and discloses that the nut 31 and

washer 38 securely attach the valve stem 17 to the casing 19 so as to prevent loosing due to vehicle jolting, see Col. 3 lns 61-67. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made that a jig of an automatic mounting machine would install the valve stem condition sensing system of Chuang because it would be more efficient, effective and accurate and allow human workers to devote time and energy to other tasks.

In reference to Claim 2, Chuang also shows that valve stem cavity 51 and elongated hole 53 are located along the center axis of the valve stem, see Figs. 3 and 5.

In reference to Claim 3, Examiner takes Official Notice that both the concept and advantages of providing an air hole in the casing is both known and expected in the art. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide an air hole in the casing so that the tire pressure could be adjusted at any time.

In reference to Claim 4, Chuang further discloses that arcuated shoulder 56 is provided to prevent rotation, see Col. 4 lns 43-47.

In reference to Claim 7, see above rejection in reference to Claims 1 and 2

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In reference to Claims 8 and 9, see above rejection in reference to Claims 3 and 4, respectively.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel J.

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Walk whose telephone number is (571) 272-2960. The examiner can normally be reached on M-F: 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Wu can be reached on (571) 272-2964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SJW

Thomas J. Mullen, Jr.
Primary Examiner
Art Unit 2632

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